

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: Moody Landfill Fire

From: 2/4/23
6:00 AM

To: 2/5/23
6:00 AM



The predominant pollutant observed at monitoring stations is small particulate matter: PM-2.5. The "Concentration Range" column in the tables below shows minimum and maximum levels. The "Period Average" column is the most useful value and represents a full 24-hour day. The PM-2.5 Period Average is compared to the "24-Hour Average" column in the Communit Action Thresholds Table that is attached.

Note: line graphs show PM-2.5 in units of mg/m³ while tables on pages 1 and 2 show PM-2.5 in ug/m³. (1 mg/m³ = 1,000 ug/m³)

EPA Air Quality Station 03							
Instrument	Analyte		Action Level Exceedance?	Concentration Range	Period Average	Action Level	Action Level Basis
MultiRAE 3	VOC	Volatile Organic Compounds	No	0 - 1182 ppb	37.79 ppb	9000 ppb	AEGL-1 8-hr
	CO	Carbon Monoxide	No	0 - 43 ppm	1.63 ppm	27 ppm	AEGL-2 8-hr
	LEL	Lower Explosive Limit	No	0 - 0 %	0 %	10 %	29 CFR 1910.146, Confined Spaces
	HCN	Hydrogen Cyanide	No	0 - 1.2 ppm	0.06 ppm	2 ppm	AEGL-1 1-hr
DustTrak 3	PM-2.5	Particulate Matter <2.5 microns	See PM2.5 Action Level Sheet	2 - 2950 µg/m ³	53.23 µg/m ³	See PM2.5 Action Level Sheet	PM2.5 Community Action Threshold Levels

EPA Air Quality Station 04							
Instrument	Analyte		Action Level Exceedance?	Concentration Range	Period Average	Action Level	Action Level Basis
MultiRAE 4	VOC	Volatile Organic Compounds	No	0 - 942 ppb	41.8 ppb	9000 ppb	AEGL-1 8-hr
	CO	Carbon Monoxide	No	0 - 66 ppm	3.57 ppm	27 ppm	AEGL-2 8-hr
	LEL	Lower Explosive Limit	No	0 - 0 %	0 %	10 %	29 CFR 1910.146, Confined Spaces
	HCN	Hydrogen Cyanide	No	0 - 0.9 ppm	0.01 ppm	2 ppm	AEGL-1 1-hr
DustTrak 4	PM-2.5	Particulate Matter <2.5 microns	See PM2.5 Action Level Sheet	3 - 397 µg/m ³	39.21 µg/m ³	See PM2.5 Action Level Sheet	PM2.5 Community Action Threshold Levels

EPA Air Quality Station 05							
Instrument	Analyte		Action Level Exceedance?	Concentration Range	Period Average	Action Level	Action Level Basis
MultiRAE 5	VOC	Volatile Organic Compounds	No	0 - 2122 ppb	32.64 ppb	9000 ppb	AEGL-1 8-hr
	CO	Carbon Monoxide	No	0 - 70 ppm	4.75 ppm	27 ppm	AEGL-2 8-hr
	LEL	Lower Explosive Limit	No	0 - 0 %	0 %	10 %	29 CFR 1910.146, Confined Spaces
	HCN	Hydrogen Cyanide	No	0 - 1.1 ppm	0.01 ppm	2 ppm	AEGL-1 1-hr
DustTrak 5	PM-2.5	Particulate Matter <2.5 microns	See PM2.5 Action Level Sheet	4 - 582 µg/m³	42.83 µg/m³	See PM2.5 Action Level Sheet	PM2.5 Community Action Threshold Levels

EPA Air Quality Station 06							
Instrument	Analyte		Action Level Exceedance?	Concentration Range	Period Average	Action Level	Action Level Basis
MultiRAE 6	VOC	Volatile Organic Compounds	No	0 - 0 ppb	0 ppb	9000 ppb	AEGL-1 8-hr
	CO	Carbon Monoxide	No	0 - 0 ppm	0 ppm	27 ppm	AEGL-2 8-hr
	LEL	Lower Explosive Limit	No	0 - 0 %	0 %	10 %	29 CFR 1910.146, Confined Spaces
	H2S	Hydrogen Sulfide	No	0 - 0 ppm	0 ppm	0.51 ppm	AEGL-1, 8-hr
DustTrak 6	PM-2.5	Particulate Matter <2.5 microns	See PM2.5 Action Level Sheet	7 - 80 µg/m³	12.24 µg/m³	See PM2.5 Action Level Sheet	PM2.5 Community Action Threshold Levels

Notes:

% Percent
 < Less than
 > Greater than
 AEGL Acute Exposure Guideline Levels for Airborne Chemicals
 C/m Counts (ionization events) per minute
 mg/m³ milligrams per cubic meter
 min Minute
 PAC Protective Action Criteria
 PEL Permissible exposure limit
 ppb Parts per billion
 ppm Parts per million
 PM Particulate matter
 SOG Standard Operating Guidelines
 SPM Single Point Monitor
 TEEL Temporary Emergency Exposure Limit
 TLV Threshold limit value
 µg/m³ Micrograms per cubic meter
 µrem/h Microrem per hour
 α Alpha radiation (Ludlum 2241-2 can measure α under specific configuration)
 β Beta radiation (Ludlum 2241-2 can measure β under specific configuration)
 γ Gamma-wave radiation

Comments:

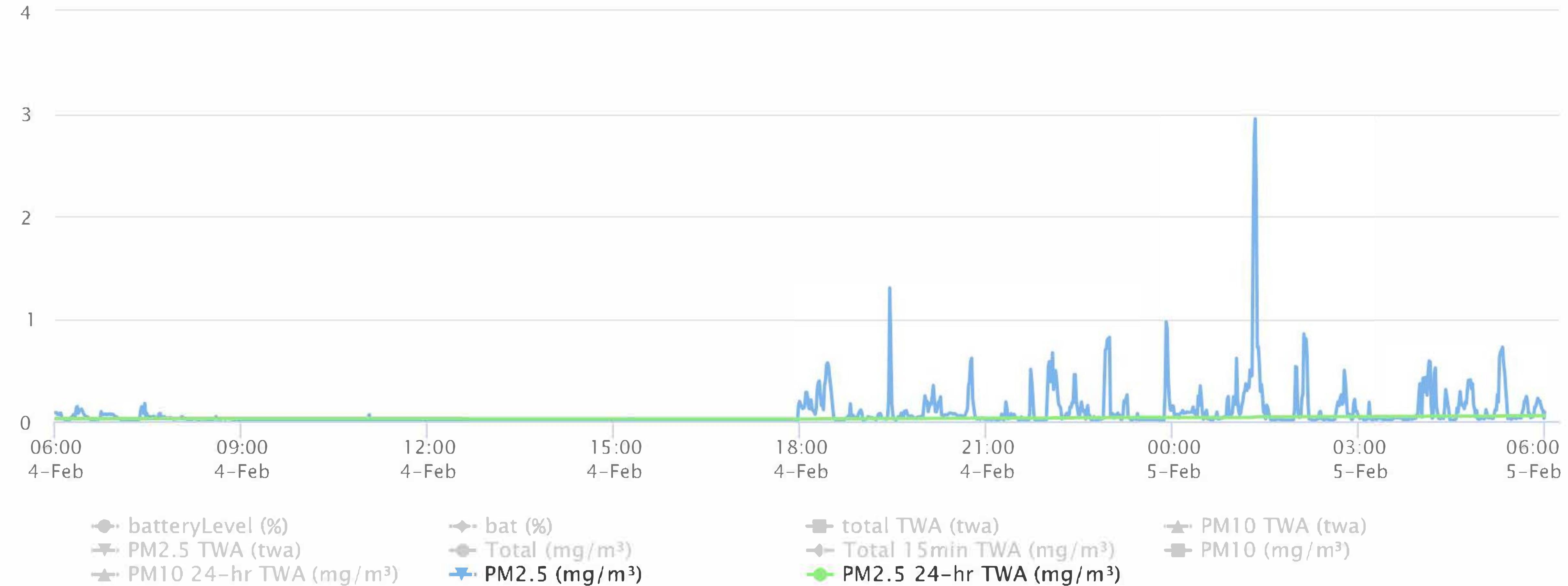
Air Monitoring Station 03 has a 24-hour period average of 53.23 µg/m³, which is above the action level of 35.4 µg/m³

Air Monitoring Station 04 has a 24-hour period average of 39.21 µg/m³, which is above the action level of 35.4 µg/m³

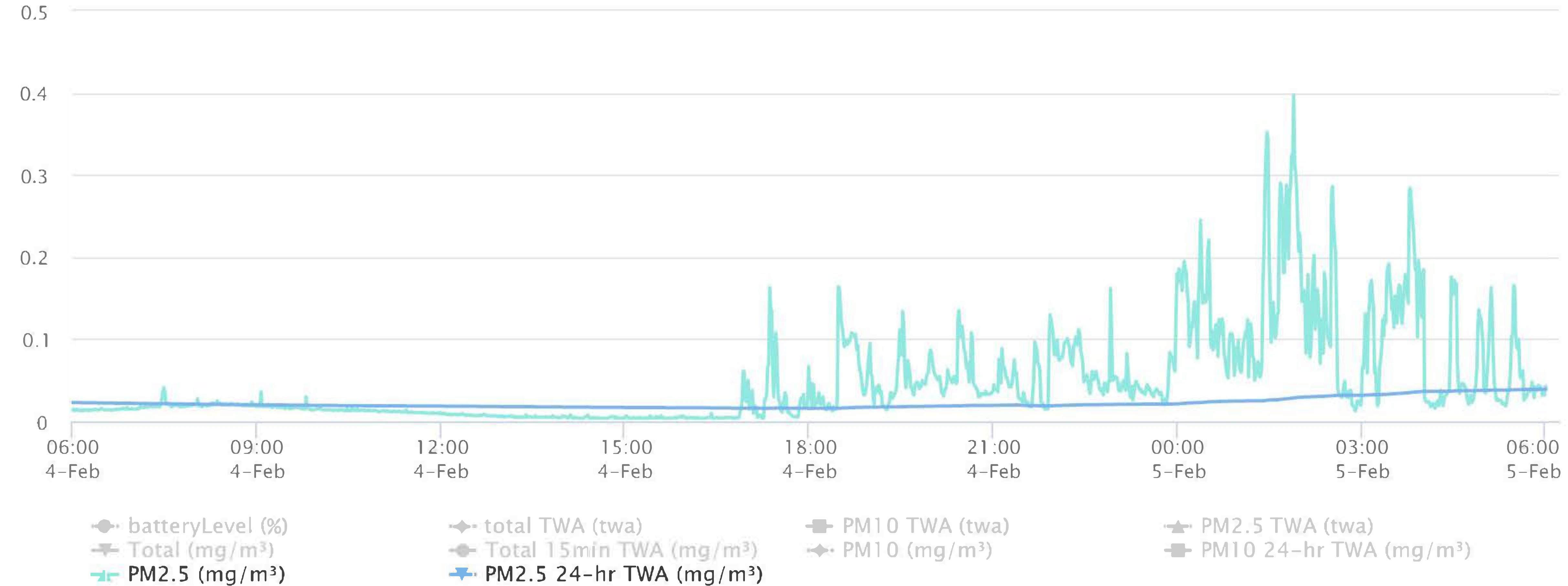
Air Monitoring Station 05 has a 24-hour period average of 42.83 µg/m³, which is above the action level of 35.4 µg/m³

Air Monitoring Station 06 has a 24-hour period average under 35.4 µg/m³.

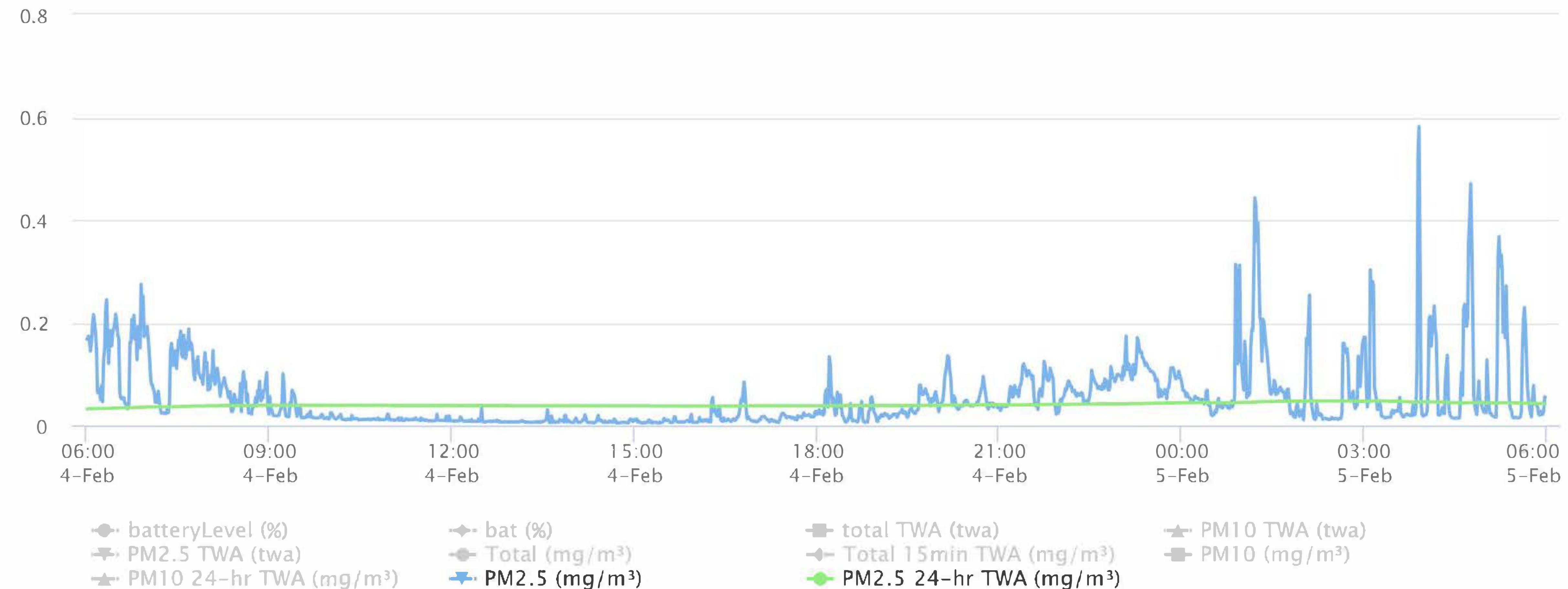
EPA Air Monitoring Station 03



EPA Air Monitoring Station 04



EPA Air Monitoring Station 05



EPA Air Monitoring Station 06

